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(54) EDDY CURRENT DECELERATOR

boss 5 of the rotary shaft 1.

(57) Abstract:

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PROBLEM TO BE SOLVED: To provide an eddy current decelerator whose brake drum is coupled with a boss of a rotary shaft with an elastic member so as to have the thermal expansion of the brake drum absorbed.

SOLUTION: This eddy current decelerator has a brake drum 7 coupled with a rotary shaft 1; a guide cylinder 10 which is provided in the brake drum 7 and attached to a non-rotating part such as a chassis, has a rectangular cross-section, and is made of nonmagnetic material; at least one movable magnet support cylinder 14 provided in the guide cylinder 10; a large number of magnets 24 attached to the outer circumferential surface of the magnet support cylinder 14 circumferentially at the same intervals; and ferromagnetic elements 15 attached to the parts of the guide cylinder 10 facing the respective magnets 24. A braking force is generated in the brake drum 7 by eddy currents induced by magnetic fields from the magnets 24. Both ends of an elastic element 44 with a U-shaped cross-section are attached and fixed to the inner circumferential surface of the end of the brake drum 7, and to the outer circumferential surface of the

